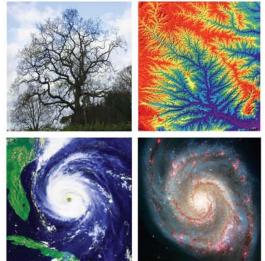


What Is A Fractal?

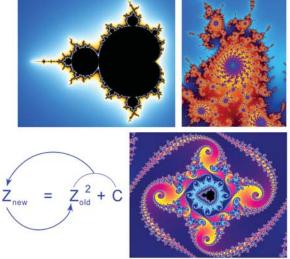


Where Do We Find Fractals?

In Nature In Math



Natural fractals include branching patterns like trees, river networks, lightning bolts, blood vessels, etc, and spiral patterns like seashells, hurricanes, and galaxies.



Mathematical fractals, like the Mandelbrot Set, are formed by calculating a simple equation thousands of times, feeding the answer back in to the start. These fractals are infinitely complex, meaning we can zoom in forever.



A tree grows by repetitive branching. A fractal triangle is formed by a simple repetition. The infinite Mandelbrot Set is formed by repeating a tremendously simple calculation. Simplicity leads to complexity. A fractal tells a story of the processes that created it.

Fractals are SMART: Science, Math & Art! www.FractalFoundation.org